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Agricultural Memorandum No 754

Quick formulae for median Excess Winter Rain

L P Smith

Analysis of the agroclimatic area data leads to the following quick formulae for Excess Winter Rain median values where R_a = average annual rainfall in mm PT_a = average annual potential transpiration in mm

1. $R_a - PT_a$ less than 400 mm

   $XWR = 0.8\ R_a - 0.39\ PT_a + 128.7$

   with partial regressions 0.996 and -0.883

2. $R_a - PT_a$ more than 400 mm

   $XWR = 0.94 R_a - 0.715\ PT_a - 111.3$

   with partial regressions 0.998 and -0.917

Any comments or suggestions on this paper should be referred to the author.

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Agricultural Memorandum No 754a

Quick formula for median Excess Winter Rain

L P Smith

The two formulae of Ag Mem 754 can be combined as follows. Working in millimetres,

if $A = R_a - PT_a$ up to a maximum of 400

and $B = R_a - PT_a$ in excess of 400

then

$XWR = 0.74A + 0.9B + 90$

with a multiple correlation of 0.99 and

partial correlations 0.98 for A and 0.99 for B

Any comments or suggestions on this paper should be referred to the author.

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